

No.

9900275



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Ø & A Enterprises, Inc.

Witness, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER-PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'DP 6211 ACALA'

In Testimony Whereof, I have hereunto set my hand  
and caused the seal of the Plant Variety  
Protection Office to be affixed at the City of  
Washington, D.C. this twenty-fourth day of  
March, in the year two thousand and five.

Attest:

R.L. Johnson  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

M. L. Johnson  
Secretary of Agriculture

**REPRODUCE LOCALLY.** *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
*(Instructions and information collection burden statement on reverse)*

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*

O & A Enterprises, Inc.

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

37860 W. Smith-Enke Road  
Maricopa, AZ 85239

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

OA-211

3. VARIETY NAME

DP 6211 ACALA

FOR OFFICIAL USE ONLY

PVPO NUMBER

9900275

6. TELEPHONE *(include area code)*

(520) 568-2276 X219

6. FAX *(include area code)*

(520) 568-2556

FILING DATE

03/25/99  
MAR 25 1999 2003

FILING AND EXAMINATION FEE

\$ 2450.00

FEES DATE

3-25-99

CERTIFICATION FEE:

\$ 432.00

RECEIVED DATE

2/23/05

7. GENUS AND SPECIES NAME

Gossypium Hirsutum

8. FAMILY NAME *(Botanical)*

Malvaceae

9. CROP KIND NAME *(Common name)*

Cotton

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)* *(Common name)*

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

Delaware

12. DATE OF INCORPORATION

April 1998

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Dr. James M. Olvey  
O & A Enterprises, Inc.  
37860 W. Smith-Enke Road  
Maricopa, AZ 85239

14. TELEPHONE *(include area code)*

16. FAX *(include area code)*

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

- a.  Exhibit A. Origin and Breeding History of the Variety
- b.  Exhibit B. Statement of Distinctness
- c.  Exhibit C. Objective Description of the Variety
- d.  Exhibit D. Additional Description of the Variety *(Optional)*
- e.  Exhibit E. Statement of the Basis of the Applicant's Ownership
- f.  Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)*
- g.  Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*

YES *if "yes," answer items 18 and 19 below*       NO *if "no," go to item 20*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

YES       NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

FOUNDATION       REGISTERED       CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

YES *if "yes," give names of countries and dates*

NO

U.S. April 6, 1998

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*

Dr. James M. Olvey

NAME *(Please print or type)*

Dr. James M. Olvey

CAPACITY OR TITLE

President

DATE

3-20-99

SIGNATURE OF APPLICANT *(Owner(s))*

NAME *(Please print or type)*

DATE

## **Exhibit A**

### **Origin and Breeding History of Variety**

#### **Acala OA-211**

On March 16, 1991, O & A Enterprises, Inc. received USDA germplasm, numbered 0207-1 from the Shafter research program. The prior number was 9275-1, which was an F3 of the cross between (N9281 X T5690) X (N6072 X SS2086).

Acala OA-211 originated from a single plant selection made in 1991 from the F3 population of (N9281 X T5690) X (N6072 X SS2086). Acala OA-211 was tested in several areas in the San Joaquin Valley (SJV) and has completed the SJVCB's Cotton Board's testing program. Acala OA-211 is well adapted to high verticillium wilt soils, has excellent seedling vigor and is productive even in the lower yielding areas of the SJV.

Stability of Acala OA-211 has been observed for 4 crop seasons in which no variants have occurred. The variety is stable.

#### **Breeding History**

1987	Cross	(N9281 X T5690) X (N6072 X SS2086)
1988		F1
1989		F2
1990		F3 (Increased by ARS)
1991		Individual Plant Selection by O&A
1992		Progeny Row
1993		Preliminary Strains
1994		Advanced Strains
1995		1st Year SJVCB Testing and Increase
1996		2nd Year SJVCB Testing and Increase
1997		3rd Year SJVCB Testing and Increase
1998		Commercial Release

**Exhibit B****Statement of Distinctness**

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**Comparison of OA-211 to Maxxa (Standard)**

OA-211 is the highest yielding variety on both 30" and 40" rows and under verticillium wilt and non wilt conditions and is exceptionally well adapted throughout the entire San Joaquin Valley. OA-211 shows excellent heat tolerance (1996) and seedling vigor. OA-211 exhibits high turnout at commercial gins without sacrificing seedling vigor, seed size or increased seed coat fragments.

OA-211 has 3-10% fewer neps, a significantly higher yarn appearance (AI), a lower short fiber content and finer fiber than Maxxa. These qualities are desirable to the mills.

The following is a summary of some of the differences between OA-211 and the current standard, Maxxa. All data were obtained from 1995 SJVCB Screening and 1996 Variety Trials. Where available, some of the data from 1997 Variety Trials has been included.

1. OA-211 has a higher seedling vigor than Maxxa.

1996	OA-211	49
	Maxxa	42

2. OA-211 has significantly lower B+ (a measure of increasing yellowness) than Maxxa. (Table 1)

1996	OA-211	8.0
	Maxxa	8.2

3. OA-211 has a lower leaf grade than Maxxa. (Table 2)

1996	OA-211	4.0
	Maxxa	4.2

4. OA-211 has significantly finer fiber than Maxxa based on the Shirley FMT III. (Table 3)

1996	OA-211	166
	Maxxa	169

5. OA-211 has a similar fiber maturity to Maxxa but has a lower micronaire. (Table 4)

		Maturity	Micronaire
1996	OA-211	81.2	3.99
	Maxxa	81.6	4.06

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6. OA-211 has significantly lower short fiber content (%) than Maxxa (Peyer). (Table 5)

1996	OA-211	5.8
	Maxxa	9.6

7. OA-211 has significantly lower picker and card manufacturing fiber waste (%). (Table 6)

1996	OA-211	6.1
	Maxxa	7.1

8. OA-211 has fewer neps on both carded 50's/1000 yards and combed 50's/1000 yards and a significantly higher appearance index than Maxxa. (Tables 7a, b, c and d)

	1996	Carded 50's		Combed 50's	
		Neps	AI	Neps	AI
	OA-211	1806	97	241	125
	Maxxa	1874	87	267	113

9. OA-211 has fewer neps and higher appearance index than Maxxa on 36 count yarn for both rotor and ring. (Table 8)

	1996	Rotor		Ring	
		Neps	AI	Neps	AI
	OA-211	169	120	1119	97
	Maxxa	178	112	1158	85

10. OA-211 has significantly lower % seed moisture than Maxxa. (Table 9)

1996	OA-211	7.8
	Maxxa	8.6

11. OA-211 has significantly higher % oil in the seed and a significantly higher seed grade than Maxxa. (Table 9)

1996	OA-211	% oil	Seed Grade
		20.3	113
	Maxxa	19.1	109

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12. Under moderate verticillium wilt conditions, OA-211 outyielded Maxxa in 1995, 1996 and 1997. (Tables 10a, b and c)

Year	Location		Yield (lb/ac)	% of Maxxa
1995	Chowchilla	OA-211	1224	111
		Maxxa	1106	
1996	Firebaugh	OA-211	1631	103
		Maxxa	1582	
1997	Firebaugh	OA-211	1718	106
		Maxxa	1616	

13. OA-211 consistently outyielded Maxxa in all three years of SJVCB testing. (Tables 11a and b)

	OA-211 lb/ac	Maxxa lb/ac	% of Maxxa
1995	997	944	106
1996	1304	1360	104
1997	1586	1541	103

14. OA-211 has slightly larger seed than Maxxa (O&A increase).

1996	OA-211	4000 seeds/lb
	Maxxa	4200 seeds/lb

15. OA-211 has significantly longer fiber than Maxxa. (Tables 12 and 13)

	1997	OA-211	Length 2.5% SL	
			Starlab	Visalia
		Maxxa	1.17	1.17
		Maxxa	1.16	1.15

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Table 1

SJVCB Acala Variety Trials  
Visalia Classing Office - 1996

**B+ - HV1**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	8.2	8.2	8.1	8.2	8.9	7.3	8.0	8.6	8.2
C-141	8.2	8.1	7.8	8.0	8.7	7.2	7.9	8.6	8.0
C-143	8.3	8.6	8.4	8.3	9.1	7.3	8.3	8.6	8.3
C-144	8.4	8.3	8.1	8.4	8.5	7.2	7.8	8.4	8.1
C-151	8.5	8.4	8.3	8.1	8.9	7.5	8.4	8.6	8.3
C-153	7.7	7.8	7.5	7.7	8.2	7.0	7.5	7.9	7.6
GC-9209	8.2	8.2	8.1	8.0	8.7	7.1	7.9	8.4	8.1
GC-9422	8.0	7.9	7.9	8.0	8.7	7.2	8.0	8.5	8.0
GC-9426	8.2	7.9	7.9	8.2	8.7	7.1	7.6	8.4	8.0
GC-9427	8.2	8.1	8.0	8.2	8.8	7.1	7.9	8.5	8.1
GC-9428	8.2	7.9	7.9	8.3	8.7	6.9	7.7	8.1	7.9
OA-211	8.1	8.1	8.0	7.9	8.6	7.2	8.0	8.6	8.0
PHY 49	7.9	7.9	8.0	7.8	8.4	7.0	7.8	8.2	7.8
PHY 52	8.4	8.3	8.1	8.2	8.7	7.1	7.9	8.4	8.1
PHY 56	8.3	8.1	7.9	8.4	9.2	7.4	8.1	8.7	8.2
AVERAGE	8.2	8.1	8.0	8.1	8.7	7.2	7.9	8.4	8.1
LSD .05	NS	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.1
%CV	2.4	2.0	2.2	1.6	1.7	2.0	2.1	2.1	2.0

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Table 2

SJVCB Acala Variety Trials  
Visalia Classing Office - 1996

**LEAF GRADE - MANUAL**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	3.5	5.5	4.5	4.0	3.5	4.0	5.0	3.5	4.2
C-141	4.0	6.0	5.0	4.0	4.5	4.0	5.0	3.5	4.5
C-143	3.0	5.5	4.5	3.5	4.0	4.0	5.5	3.5	4.2
C-144	4.0	5.0	5.0	4.5	4.0	4.0	6.0	4.0	4.6
C-151	3.5	5.5	5.0	4.0	4.0	4.5	5.5	4.0	4.5
C-153	4.5	5.5	5.0	4.5	4.0	4.5	6.0	4.0	4.8
GC-9209	3.5	5.5	5.0	4.5	4.0	4.5	5.5	3.5	4.5
GC-9422	4.0	6.0	5.0	4.5	4.0	4.5	5.5	3.0	4.6
GC-9426	3.0	6.0	5.0	5.0	4.5	3.0	5.5	3.5	4.4
GC-9427	3.0	5.0	4.5	4.5	4.0	4.5	5.5	4.0	4.4
GC-9428	3.0	6.0	5.0	4.0	4.0	4.5	5.5	4.0	4.5
OA-211	3.0	5.0	5.0	3.5	3.0	3.5	5.5	3.5	4.0
PHY 49	4.0	6.5	5.0	4.5	4.0	4.5	6.0	3.5	4.8
PHY 52	3.5	5.5	4.0	4.0	4.0	4.5	5.0	3.5	4.3
PHY 56	4.5	6.0	6.0	5.5	4.0	4.0	6.5	4.0	5.1
AVERAGE	3.6	5.6	4.9	4.3	4.0	4.2	5.6	3.7	4.5
LSD .05	NS	NS	NS	NS	NS	0.8	NS	NS	0.4
%CV	17.7	13.3	10.2	12.7	8.2	8.6	10.1	16.0	12.3

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Table 3

SJVCB Acala Variety Trials  
ITC FMT II Fineness - 1996

**FINENESS**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	174	168	165	164	176	172	165	169	169
C-141	175	171	163	168	177	164	163	160	168
C-143	172	173	163	171	181	164	157	168	168
C-144	157	163	153	163	164	155	154	160	158
C-151	161	167	157	159	175	160	155	165	162
C-153	148	156	140	153	153	143	141	152	148
GC-9209	177	169	160	163	176	161	161	156	165
GC-9422	161	163	151	157	167	152	153	154	157
GC-9426	170	171	162	168	170	166	156	165	166
GC-9427	158	159	149	159	165	151	153	148	155
GC-9428	165	166	153	163	171	154	155	152	160
OA-211	165	168	161	170	181	167	157	158	166
PHY 49	162	168	154	158	172	161	151	150	159
PHY 52	182	190	174	179	184	176	174	167	178
PHY 56	167	173	146	160	177	160	160	147	161
AVERAGE	166	168	157	163	172	160	157	158	163
LSD .05	11	11	9	9	6	9	11	12	3
%CV	3.2	3.1	2.6	2.7	1.5	2.5	3.1	3.6	2.9

Table 4  
SJVCB Acala Variety Trials  
Shirley FMT III

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	FINENESS	MATURITY	MICRONAIRE
MAXXA	169	81.6	4.06
C-141	168	81.2	4.01
C-143	168	81.7	4.09
C-144	158	82.4	3.94
C-151	162	82.8	4.05
C-153	148	85.1	3.88
GC-9209	165	85.2	4.16
GC-9422	157	84.1	3.96
GC-9426	166	86.2	4.27
GC-9427	155	85.3	4.01
GC-9428	160	86.0	4.17
OA-211	166	81.2	3.99
PHY 49	159	83.5	3.98
PHY 52	178	86.3	4.54
PHY 56	161	87.8	4.21
LSD .05	3	1.8	0.09
%CV	2.9	2.6	2.5

Table 5  
SJVCB Acala Variety Trials

PERCENT SHORT FIBER & NON LINT  
% SHORT FIBER

	AFIS	PEYER	%NON LINT	SCF/5 GMS
MAXXA	6.6	9.6	3.0	51
C-141	5.6	3.8	3.2	47
C-143	6.2	5.3	3.6	70
C-144	5.7	5.4	4.3	71
C-151	5.6	5.9	4.5	78
C-153	6.5	10.0	5.1	88
GC-9209	5.5	5.7	3.3	54
GC-9422	5.4	5.6	2.8	49
GC-9426	5.9	4.7	2.6	52
GC-9427	5.9	4.8	2.8	64
GC-9428	5.9	6.3	3.2	55
OA-211	7.1	5.8	3.0	52
PHY 49	5.9	7.3	3.2	49
PHY 52	5.3	6.2	2.8	51
PHY 56	5.5	5.9	3.3	51
LSD .05	0.5	1.7	0.2	9
%CV	9.5	39.0	8.7	20.7

SCF = Seed Coat Fragments  
% Short Fiber & % Non Lint 3 locations only

Table 6  
SJVCB Acala Variety Trials

**ITC MANUFACTURING WASTE - 1996**  
**% PICKER & CARD WASTE**

	BUTTON WILLOW	TULARE	LOS BANOS	MEAN
MAXXA	5.4	7.6	8.2	7.1
C-141	5.8	7.6	5.3	6.2
C-143	5.9	8.1	5.9	6.6
C-144	6.2	8.1	6.6	7.0
C-151	5.5	8.5	7.4	7.1
C-153	6.9	9.5	7.9	8.1
GC-9209	5.5	7.2	5.6	6.1
GC-9422	5.2	7.4	5.1	5.9
GC-9426	5.1	6.8	5.8	5.9
GC-9427	5.2	6.8	5.5	5.8
GC-9428	5.4	7.0	5.8	6.1
OA-211	5.5	7.3	5.6	6.1
PHY 49	5.1	7.5	5.5	6.0
PHY 52	5.2	6.5	5.4	5.7
PHY 56	5.7	7.8	5.5	6.3
AVERAGE	5.6	7.6	6.1	6.4
LSD .05	NS	0.9	NS	0.8
%CV	8.8	5.7	16.1	10.6

Tables 7a,b  
SJVCB Acala Variety Trials

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ITC YARN NEPS - 1996

CARDED 50'S/1000 YARDS

	BUTTON WILLOW	TULARE	LOS BANOS	MEAN
MAXXA	1900	2154	1567	1874
C-141	1157	1543	1068	1256
C-143	1564	1856	1413	1611
C-144	1544	2059	1597	1733
C-151	1501	1941	1557	1666
C-153	2413	2479	2122	2338
GC-9209	1816	1948	1398	1721
GC-9422	1646	2599	1359	1868
GC-9426	1780	1948	1323	1684
GC-9427	2044	2260	1487	1930
GC-9428	1826	1955	1465	1749
OA-211	1873	2200	1344	1806
PHY 49	1872	2227	1586	1895
PHY 52	1396	1977	1252	1542
PHY 56	2000	2368	2275	2214
AVERAGE	1755	2101	1521	1792
LSD .05	242	218	375	284
%CV	6.4	4.8	11.5	7.4

COMBED 50'S/1000 YARDS

	BUTTON WILLOW	TULARE	LOS BANOS	MEAN
MAXXA	220	332	249	267
C-141	151	254	196	200
C-143	234	339	251	274
C-144	259	384	305	316
C-151	255	361	348	321
C-153	349	377	376	367
GC-9209	255	291	228	258
GC-9422	266	507	240	337
GC-9426	210	341	237	262
GC-9427	292	333	315	313
GC-9428	266	318	266	283
OA-211	208	285	230	241
PHY 49	363	342	337	347
PHY 52	208	332	246	262
PHY 56	339	405	430	391
AVERAGE	258	346	283	296
LSD .05	67	67	79	67
%CV	12.1	9.0	13.0	11.2

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Tables 7c,d  
SJVCB Acala Variety Trials

**ITC APPEARANCE INDEX - 1996**

**CARDED 50'S**

BUTTON WILLOW	TULARE	LOS BANOS	MEAN
MAXXA	90	90	87
C-141	110	85	105
C-143	95	90	90
C-144	90	75	90
C-151	100	70	80
C-153	80	70	75
GC-9209	90	80	85
GC-9422	95	70	85
GC-9426	100	80	100
GC-9427	90	70	90
GC-9428	100	80	100
OA-211	105	85	100
PHY 49	90	70	100
PHY 52	95	75	110
PHY 56	80	70	75
AVERAGE	94	77	91
LSD .05	NS	11	20
%CV	10.9	6.8	10.0
			9.7

**COMBED 50'S**

BUTTON WILLOW	TULARE	LOS BANOS	MEAN
MAXXA	115	110	115
C-141	130	120	125
C-143	120	115	115
C-144	115	110	110
C-151	120	110	110
C-153	115	110	105
GC-9209	125	110	115
GC-9422	110	110	110
GC-9426	115	115	115
GC-9427	115	110	120
GC-9428	120	115	120
OA-211	130	130	115
PHY 49	125	110	105
PHY 52	130	120	120
PHY 56	115	110	110
AVERAGE	120	114	114
LSD .05	11	7	NS
%CV	4.4	2.8	5.7
			6
			4.5

**Table 8**  
**SJVCB Acala Variety Trials**

**36 COUNT YARN APPEARANCE  
ROTOR RING**

	NEPS*	THICK	THIN	CV%	AI**	NEPS*	THICK	THIN	CV%	AI**
MAXXA	178	333	164	17.5	112	1158	1173	393	21.4	85
C-141	140	299	138	17.2	118	725	775	244	19.8	105
C-143	182	315	143	17.3	112	1017	908	243	20.0	95
C-144	173	256	93	16.7	110	1174	899	182	19.7	90
C-151	181	286	104	16.9	117	1091	843	189	19.7	95
C-153	203	229	61	16.3	108	1535	1240	294	21.2	78
GC-9209	177	285	115	17.0	123	1161	1013	324	20.5	97
GC-9422	215	315	105	16.9	115	1295	936	210	20.0	92
GC-9426	186	308	123	17.1	118	1139	997	264	20.6	98
GC-9427	209	276	96	16.8	115	1313	1016	250	20.6	90
GC-9428	203	276	115	16.9	120	1226	953	243	20.2	98
OA-211	169	334	159	17.5	120	1119	1158	424	21.4	97
PHY 49	219	265	86	16.6	110	1339	955	202	19.9	90
PHY 52	192	326	154	17.4	123	1160	897	257	20.1	98
PHY 56	261	310	107	17.0	118	1619	1139	260	20.6	85
LSD .05	32	51	27	0.3	8	181	154	87	0.7	13
%CV	14.4	10.1	11.6	1.1	5.9	8.0	6.0	19.5	1.4	8.0

\*Neps per 1000 yards - Uster

\*\*AI = Appearance Index

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Table 9

**SJVCB ACALA VARIETY TEST - 1996**  
**COTTONSEED ANALYSIS\***

	% MOIST	% F.M.	% LINTER	% FFA	% OIL	% NH3	% GOSYPL	GRADE
MAXXA	8.6	0.5	11.3	0.4	19.1	4.58	1.16	109
C-141	8.4	0.6	9.4	0.3	18.9	4.49	1.05	108
C-143	8.5	0.5	10.1	0.3	20.0	4.76	1.19	113
C-144	8.5	0.7	10.3	0.3	20.1	4.71	1.07	114
C-151	8.6	0.5	10.1	0.3	19.8	4.82	1.05	113
C-153	8.5	0.8	12.0	0.4	19.4	4.57	1.21	110
GC-9209	8.4	0.5	11.0	0.3	20.1	4.47	1.21	112
GC-9422	7.8	0.6	9.8	0.3	21.0	4.38	0.96	115
GC-9426	7.5	0.5	10.7	0.3	20.4	4.57	1.16	114
GC-9427	7.6	0.7	11.2	0.4	21.0	4.47	0.94	116
GC-9428	7.8	0.6	10.7	0.3	19.4	4.56	1.07	110
OA-211	7.8	0.5	10.9	0.3	20.3	4.56	1.12	113
PHY 49	7.7	0.6	10.0	0.4	20.3	4.28	1.09	112
PHY 52	7.8	0.5	9.5	0.4	20.2	4.40	0.90	112
PHY 56	7.8	0.5	10.7	0.4	20.7	4.34	1.08	114
LSD .05	0.3	NS	0.5	NS	0.7	0.11	0.09	3
%CV	2.8	26.1	4.3	22.9	2.0	2.2	4.7	1.2

\*Average of 3 locations - Wasco Tulare WSFS

Table 10a

**SJVCB SCREENING TEST 1995**  
**CHOWCHILLA**

**LINT YIELD PER ACRE  
 (ONE PICK ONLY)**

GC-9429	1319	a
CBX-595	1296	ab
GC-9428	1265	abc
GC-9426	1264	abc
GC-9424	1247	abcd
OA-211	1224	abcde
GC-9422	1220	abcdef
PHY52	1199	abcdefg
PHY49	1199	abcdefg
GC-9427	1179	abcdefg
CBX-495	1162	abcdefg
GC-9423	1140	abcdefg
PHY50	1132	abcdefghijkl
MAXXA	1106	abcdefghijkl
CBX-695	1101	bcdefgh
CBX-395	1100	bcdefgh
C-151	1096	bcdefgh
PHY53	1093	bcdefgh
C-154	1081	bcdefgh
CBX-195	1077	bcdefgh
PHY56	1073	cdefgh
C-153	1061	cdefgh
C-152	1051	cdefgh
C-156	1040	defgh
GC-9425	1039	defgh
OA-207	1034	defgh
PHY55	1025	defgh
C-155	1023	efgh
OA-233	1021	efgh
OA-234	1002	fg
OA-223	997	gh
PHY51	991	gh
CBX-295	989	gh
PHY54	918	h

Table 10b

1900245

**SJVCB VARIETY TEST - 1996**  
**POUNDS LINT PER ACRE**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	1335	980	1153	1468	1303	1582	1093	1519	1304
C-141	1401	1115	1260	1449	1353	1649	1135	1407	1346
C-143	1313	1007	1349	1513	1296	1665	1110	1379	1329
C-144	1390	1042	1278	1477	1224	1532	1096	1334	1296
C-151	1378	1048	1123	1475	1290	1614	1102	1370	1300
C-153	1279	1032	1352	1521	1300	1674	1127	1384	1333
GC-9209	1272	970	1162	1230	1195	1493	1035	1309	1208
GC-9422	1262	938	1174	1311	1215	1558	1036	1230	1216
GC-9426	1248	916	1279	1292	1182	1506	1021	1240	1211
GC-9427	1285	1062	1234	1309	1208	1396	1047	1317	1232
GC-9428	1281	951	1250	1307	1171	1480	1008	1185	1204
OA-211	1361	1075	1246	1578	1339	1631	1141	1505	1360
PHY 49	1226	1017	1222	1528	1277	1610	1088	1382	1294
PHY 52	1309	1154	1430	1483	1187	1566	1104	1304	1317
PHY 56	1314	1103	1362	1528	1152	1604	1135	1449	1331
LSD .05	72	70	108	78	74	84	85	66	58
%CV	3.9	4.8	6.0	3.8	4.2	3.8	5.5	3.4	4.4

30" rows at Stratford-Chowchilla-Los Banos.  
 Moderate Verticillium wilt at Firebaugh.

Table 10c

**SJVCB VARIETY TEST 1997**  
**FIREBAUGH**

**LINT YIELD PER ACRE  
 (ONE PICK ONLY)**

C-151	1735	a
OA-211	1716	a
C-162	1707	a
OA-207	1685	a
C-153	1672	a
C-165	1657	ab
PHY 68	1649	abc
BR 9602	1647	abc
PHY 56	1625	abcd
MAXXA	1616	abcd
C-166	1533	bcd
GC-9536	1518	cde
BR 9605	1500	de
GC-9427	1460	e
GC-9533	1453	e
PHY 69	1452	e

COOPERATOR - John Diedrich Farms

SOIL TYPE - Panoche Clay Loam

CROP HISTORY - 96 tomatoes, 95 cotton, 94 tomatoes

TEST DESIGN - 6 row plots - 1/4 mile long. 4 replications.  
 Yield from 2 inside rows.

PLANTING DATE - April 12

POPULATION - 40,000 plants/A

FERTILIZER - 260 N, 100 P205, 260 K20

IRRIGATIONS - 3 irrigations from late June through mid August

PEST CONTROL - 7/8 Kelthane, 8/6 Dibrom + Comite

WEED CONTROL - Goal and Roundup pre-plant, 5/28 Staple

DEFOLIATION - 10/4 Protocol + Prepp  
 10/14 Deff + Starfire

HARVEST DATES - November 7

NOTES - 8/4 PIX 1/2 pt.  
 Moderate Verticillium wilt

Table 11a

**SJVCB ACALA SCREENING TEST - 1995  
POUNDS LINT PER ACRE**

	CHOW										
	SHAFTER	WASCO	WSFS	CHILLA	MEAN	LNGTH	UNIF	STR*	MIC	YTEN	
MAXXA	650	794	1225	1106	944	1.16	48.0	22.9	3.90	149	
C-151	624	708	1232	1096	915	1.17	49.3	24.8	3.90	160	
C-152	634	726	1196	1051	902	1.23	48.9	24.8	4.01	170	
C-153	624	636	1188	1061	877	1.18	47.3	25.3	3.74	162	
C-154	738	610	1159	1081	897	1.16	49.2	25.1	4.14	154	
C-155	531	574	1029	1023	789	1.16	48.5	23.6	3.85	156	
C-156	718	522	996	1040	819	1.23	47.5	25.0	3.73	167	
CBX-195	542	690	1175	1077	871	1.14	49.6	23.3	3.85	153	
CBX-295	569	935	1193	989	922	1.23	46.2	25.8	3.85	173	
CBX-395	700	679	1240	1100	930	1.13	49.8	24.5	4.33	156	
CBX-495	748	602	1252	1162	941	1.15	48.3	23.5	3.96	149	
CBX-595	559	535	1159	1296	887	1.16	48.6	23.6	3.83	150	
CBX-695	729	900	1266	1101	999	1.14	47.7	21.1	3.90	137	
GC-9422	612	745	1194	1220	943	1.17	49.6	25.5	3.85	165	
GC-9423	610	801	1178	1140	932	1.17	49.3	25.6	3.80	164	
GC-9424	632	677	1073	1247	907	1.16	49.3	24.7	4.00	157	
GC-9425	683	717	1154	1039	898	1.13	49.6	23.8	4.13	147	
GC-9426	773	677	1180	1264	974	1.17	48.6	24.2	4.16	160	
GC-9427	699	664	1203	1179	936	1.18	49.2	24.1	3.91	162	
GC-9428	742	761	1089	1265	964	1.17	49.4	23.9	4.10	157	
GC-9429	617	794	1146	1319	969	1.15	49.2	23.2	4.03	153	
OA-207	683	692	1155	1034	891	1.16	47.6	22.6	3.90	149	
OA-211	601	838	1323	1224	997	1.14	48.1	22.1	3.94	146	
OA-223	566	706	1120	997	847	1.18	48.8	23.6	4.15	160	
OA-233	626	703	1109	1021	865	1.18	49.1	24.2	3.90	162	
OA-234	648	778	1079	1002	877	1.17	48.9	24.0	4.36	160	
PHY49	674	711	1202	1199	946	1.19	49.5	24.0	3.93	158	
PHY50	549	660	1144	1132	871	1.16	49.6	23.6	4.10	154	
PHY51	552	647	1096	991	821	1.18	48.8	23.9	4.15	167	
PHY52	700	737	1149	1199	946	1.17	50.0	22.8	4.30	152	
PHY53	627	711	1069	1093	875	1.18	49.6	24.6	3.84	163	
PHY54	634	664	1052	918	817	1.18	49.7	26.5	4.13	165	
PHY55	679	522	1130	1025	839	1.16	49.7	24.8	3.90	154	
PHY56	673	750	1139	1073	909	1.16	49.4	25.2	4.14	158	
LSD .05	136	211	87	179	106	0.02	1.0	1.2	0.25	5	
%CV	15.0	21.5	5.4	11.5	12.7	1.5	1.8	3.6	6.3	2.4	

Fiber and yarn measurements on individual instruments - Starlab.  
Moderate Vert. wilt on some varieties late in the season  
at Chowchilla

\*Strength - multiply 1.26 to approximate HVI reading.

Table 11b

SJVCB ACALA VARIETY TEST SUMMARY OF YIELDS 1996-97

	<u>Buttonwillow</u>		<u>Wasco</u>		<u>Tulare</u>		<u>Stratford*</u>	
	1 <u>1996</u>	1 <u>1997</u>	1 <u>1996</u>	1 <u>1997</u>	1 <u>1996</u>	1 <u>1997</u>	1 <u>1996</u>	1 <u>1997</u>
Maxxa	1335ab	1252a	980a	1869a	1153 b	1485 c	1468 b	959 bc
C-151	1378a	1258a	1048a	2011a	1123 b	1630ab	1475 b	993abc
C-153	1279 b	1224a	1032a	1852a	1352a	1721a	1521ab	903 c
GC-9427	1285 b	976 c	1062a	1736a	1234ab	1363 d	1309 c	884 c
OA 211	1361a	1311a	1075a	1757a	1246ab	1619ab	1578a	1099a
Phy 56	1314ab	1111 b	1103a	1792a	1362a	1588 b	1528ab	1043ab
Avg	1325	1189	1050	1836	1245	1568	1480	980
%CV	3.4	5.4	4.7	7.4	7.2	4.3	2.5	8.7
	<u>WSFS</u>		<u>Firebaugh</u>		<u>Chowchilla*</u>		<u>Los Banos*</u>	
	1 <u>1996</u>	1 <u>1997</u>	2 <u>1996</u>	2 <u>1997</u>	1 <u>1996</u>	1 <u>1997</u>	1 <u>1996</u>	1 <u>1997</u>
Maxxa	1303a	1857a	1582a	1616a	1093a	1597ab	1519a	1695a
C-151	1290a	1833a	1614a	1735a	1102a	1627ab	1370 bc	1428 d
C-153	1300a	1737 b	1674a	1672a	1127a	1699a	1384 bc	1621 bc
GC-9427	1208 b	1678 b	1396 b	1460 b	1047a	1380 c	1317c	1431 d
OA 211	1339a	1878a	1631a	1716a	1141a	1617ab	1505a	1688ab
Phy 56	1152 b	1656 b	1604a	1625a	1135a	1562 b	1449ab	1583 c
Avg	1265	1773	1583	1637	1108	1580	1424	1574
%CV	3.3	3.4	4.3	5.3	5.0	4.1	3.6	3.0

1=Little or no wilt; 2=Moderate wilt; 3=Heavy wilt

\* Stratford, Chowchilla and Los Banos locations - 30" rows

	1996	1997	Avg.	2yr.	Light wilt	Moderate wilt
						Firebaugh 1996 & 97
Maxxa	1304a	1541ab	1423ab		1398a	1599a
C-151	1300a	1564ab	1432ab		1398a	1675a
C-153	1333a	1554ab	1444ab		1411a	1673a
GC-9427	1232 b	1363 c	1298 c		1279 b	1428 b
OA 211	1360a	1586a	1473a		1444a	1674a
Phy 56	1331a	1495 b	1413 b		1384a	1614a
Avg	1310	1517	1414		1386	1610
% CV	4.4	5.3	4.9		5.0	4.9

Treatments within a column not having a letter in common are significantly different at the 5% level.

Table 11b (continued)

SJVCB ACALA VARIETY TEST SUMMARY OF YIELDS 1996-97

	Buttonwillow		Wasco		Tulare		Stratford*	
	1 1996	1 1997	1 1996	1 1997	1 1996	1 1997	1 1996	1 1997
Maxxa	100ab	100a	100a	100a	100 b	100 c	100 b	100 bc
C-151	103a	100a	107a	108a	97 b	110ab	100 b	107abc
C-153	96 b	98a	105a	99a	117a	116a	104ab	94 c
GC-9427	96 b	78 c	108a	93a	107ab	92 d	89 c	92 c
OA 211	102a	105a	110a	94a	108ab	109ab	107a	115a
Phy 56	98ab	89 b	113a	96a	118a	107b	104ab	109ab
%CV	3.4	5.4	4.7	7.4	7.2	4.3	2.5	8.7
	<u>WSES</u>		<u>Firebaugh</u>		<u>Chowchilla*</u>		<u>Los Banos*</u>	
	1 1996	1 1997	2 1996	2 1997	1 1996	1 1997	1 1996	1 1997
Maxxa	100a	100a	100a	100a	100a	100ab	100a	100a
C-151	99a	99a	102a	107a	101a	102ab	90 bc	84 d
C-153	100a	94 b	106a	103a	103a	106a	91 bc	96 bc
GC-9427	93 b	90 b	88 b	90 b	96a	86 c	87 c	84 d
OA 211	103a	101a	103a	106a	104a	101ab	99a	100ab
Phy 56	88 b	89 b	101a	101a	104a	98 b	95ab	93 c
%CV	3.3	3.4	4.3	5.3	5.0	4.1	3.6	3.0

1=Little or no wilt; 2=Moderate wilt; 3=Heavy wilt

\* Stratford, Chowchilla and Los Banos locations - 30" rows

	1996	1997	Avg.	2yr.	Moderate wilt	
					Light wilt	Firebaugh 1996 & 97
Maxxa	100a	100ab	100ab		100a	100a
C-151	100a	101ab	101ab		100a	105a
C-153	102a	101ab	101ab		101a	105a
GC-9427	94 b	88 c	91 c		91 b	89 b
OA 211	104a	103a	104a		103a	105a
Phy 56	102a	97 b	99 b		99a	101a
% CV	4.4	5.3	4.9		5.0	4.9

Treatments within a column not having a letter in common are significantly different at the 5% level.

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Table 12  
SJVCB Acala Variety Trials

**STARLAB LENGTH & UNIFORMITY - 1997**

**2.5% SPAN LENGTH**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN	
MAXXA	1.14	1.13	1.17	1.14	1.17	1.17	1.16	1.17	1.16	
BR 9602	1.17	1.18	1.19	1.19	1.19	1.19	1.15	1.21	1.18	
BR 9605	1.13	1.13	1.17	1.14	1.14	1.17	1.13	1.19	1.15	
C-151	1.17	1.17	1.19	1.15	1.17	1.19	1.14	1.19	1.17	
C-153	1.15	1.18	1.19	1.14	1.17	1.19	1.16	1.19	1.17	
C-162	1.11	1.15	1.18	1.15	1.15	1.19	1.14	1.17	1.15	
C-165	1.14	1.16	1.17	1.15	1.14	1.16	1.15	1.19	1.16	
C-166	1.17	1.23	1.21	1.19	1.19	1.20	1.17	1.23	1.20	
GC-9427	1.18	1.17	1.20	1.19	1.19	1.19	1.15	1.19	1.18	
GC-9533	1.19	1.17	1.19	1.15	1.19	1.19	1.15	1.21	1.18	
GC-9536	1.17	1.17	1.17	1.17	1.17	1.19	1.15	1.19	1.17	
OA-207	1.14	1.13	1.16	1.14	1.14	1.19	1.13	1.15	1.15	
OA-211	1.16	1.17	1.19	1.17	1.17	1.19	1.15	1.17	1.17	
PHY 56	1.17	1.17	1.19	1.16	1.17	1.19	1.17	1.17	1.17	
PHY 68	1.17	1.15	1.19	1.19	1.17	1.20	1.15	1.19	1.18	
PHY 69	1.19	1.17	1.19	1.17	1.17	1.19	1.15	1.17	1.18	
AVERAGE	1.16	1.16	1.18	1.16	1.17	1.19	1.15	1.19	1.17	
LSD	.05	0.01	0.02	0.01	0.01	0.01	0.01	NS	0.01	0.01
%CV		0.6	0.7	0.5	0.6	0.4	0.5	1.0	0.5	0.6

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Table 13  
SJVCB Acala Variety Trials

**VISALIA CLASSING OFFICE - 1997**

**LENGTH - HVI**

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN	
MAXXA	1.14	1.12	1.16	1.15	1.16	1.15	1.12	1.18	1.15	
BR 9602	1.18	1.19	1.19	1.19	1.19	1.20	1.15	1.20	1.18	
BR 9605	1.12	1.13	1.14	1.15	1.13	1.16	1.12	1.19	1.14	
C-151	1.18	1.16	1.17	1.17	1.18	1.19	1.14	1.20	1.17	
C-153	1.16	1.15	1.18	1.17	1.17	1.20	1.15	1.19	1.17	
C-162	1.13	1.14	1.16	1.18	1.15	1.18	1.14	1.17	1.15	
C-165	1.12	1.13	1.16	1.17	1.14	1.15	1.13	1.18	1.14	
C-166	1.19	1.19	1.21	1.21	1.21	1.23	1.18	1.24	1.21	
GC-9427	1.18	1.15	1.20	1.18	1.16	1.18	1.16	1.19	1.17	
GC-9533	1.18	1.18	1.20	1.15	1.19	1.19	1.16	1.21	1.18	
GC-9536	1.16	1.17	1.18	1.17	1.15	1.18	1.15	1.20	1.17	
OA-207	1.11	1.12	1.16	1.14	1.13	1.16	1.13	1.18	1.14	
OA-211	1.16	1.16	1.19	1.17	1.15	1.19	1.15	1.19	1.17	
PHY 56	1.15	1.16	1.19	1.15	1.17	1.18	1.17	1.20	1.17	
PHY 68	1.17	1.14	1.17	1.17	1.17	1.19	1.14	1.20	1.17	
PHY 69	1.18	1.15	1.17	1.17	1.17	1.18	1.15	1.20	1.17	
AVERAGE	1.15	1.15	1.17	1.17	1.16	1.18	1.14	1.19	1.17	
LSD	.05	0.04	0.03	0.03	0.02	0.02	0.04	0.03	0.02	0.01
%CV		1.5	1.0	1.3	0.9	0.9	1.5	1.0	0.7	1.1

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9900275

**OBJECTIVE DESCRIPTION OF VARIETY**  
**COTTON (*Gossypium* spp.)**

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
O & A Enterprises, Inc.	OA-211	DP 6211 ACALA
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY	
37860 W. Smith-Enke Road Maricopa, AZ 85239	PVPO NUMBER	

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk \* indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. Maxxa      Variety 2. \_\_\_\_\_      Variety 3. \_\_\_\_\_

\*1. SPECIES:

*G. hirsutum* L.       *G. barbadense* L.

\*2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)

NA Eastern

NA Plains

   Other (Specify): \_\_\_\_\_

NA Delta

NA Western

NA Central

NA Arizona

NA Blacklands

A San Joaquin

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
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Plant Habit:

Spreading, Intermediate, Compact      Intermediate

Intermediate

Foliage:

Sparse, Intermediate, Dense

Intermediate

Intermediate

Stem Lodging:

Lodging, Intermediate, Erect

Erect

Erect

Fruiting Branch:

Clustered, Short, Normal

Normal

Normal

Growth:

Determinate, Intermediate,  
Indeterminate

Intermediate

Intermediate

Leaf Color:

Greenish yellow, Light green,  
Medium green, Dark green

Medium Green

Green

## 3. GENERAL: (continued)

**Boll Shape:** Length less than width,

Length equal to width,

Length more than width

Length more than widthLength more than width

9900275

**Boll Breadth:** Broadest at base,  
Broadest at middleBroadest at baseBroadest at base\*4. MATURITY: (50 % Open bolls; Preferred method; Describe method if different method was used.)  
Estimated % open Oct. 1~~Data 100% open now~~

79

76

## 5. PLANT:

**Cm to 1st Fruiting Branch:**  
(from cotyledonary node)  **No. of Nodes to 1st Fruiting Branch:**  
(excluding cotyledonary node)  **Mature Plant Height cm:**

(from cotyledonary node to terminal)

103

105

  

## \*6. LEAF: Upper most, fully expanded leaf.

**Type:** Normal, Sub Okra,  
Okra, Super OkraNormalNormal  **Pubescence:** Absent, Sparse,  
Medium, Dense OR Trichomes/cm<sup>2</sup>  
(Bottom surface excluding veins)MediumMedium  **Nectaries:** Present or AbsentPresentPresent  

## \*7. STEM PUBESCENCE:

Glabrous, Intermediate, Hairy

IntermediateIntermediate  

## \*8. GLANDS: (Gossypol) Absent, Sparse, Normal, More Than Normal

**Leaf:**NormalNormal  **Stem:**NormalNormal  **Calyx Lobe:** (normal is absent)  

## \*9. FLOWER:

**Petals:** Cream, YellowCreamCream  **Pollen:** Cream, YellowCreamCream  **Petal Spot:** Present, AbsentAbsentAbsent  

## \*10. SEED:

**Seed Index:**

(g/100 seed, fuzzy basis)

12.712.6  **Lint Index:**

(g lint/100 seeds)

\*11. BOLL:

Lint Percent:

Picked      Pulled      41.8      41.9

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OR

Gin Turnout:

Picked      Stripped      35.1      35.1

Number of Seeds per Boll

Grams Seed Cotton per Boll      6.3      6.3

Number of Locules per Boll      4-5      4-5

Boll Type:

(Stormproof, Storm Resistant, Open)      Open      Open

12. FIBER PROPERTIES:

Specify Method (HVI or other): Individual Instruments

\* Length: (inches, 2.5% SL)      1.18      1.18

\* Uniformity: (%)      48.6      48.3

\* Strength, T1 (g/tex)      24.0      23.9

\* Elongation, E1 (%)      6.6      6.6

\* Micronaire:      4.04      4.08

Fineness (Source \_\_\_\_\_)

Yarn Tenacity: (cN/tex, 27 tex) \_\_\_\_\_

Yarn Strength: (lbs. 22's)      144      144

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT *Alternaria macrospora*

MR *Fusarium Wilt*

NT *Anthracnose*

NT *Phymatotrichum Root Rot*

NT *Ascochyta Blight*

NT *Pythium* (specify species)

NT *Bacterial Blight (Race 1)*

NT *Rhizoctonia solani*

NT *Bacterial Blight (Race 2)*

NT *Southwestern Cotton Rust*

NT *Bacterial Blight (Race \_\_\_\_\_)*

NT *Thielaviopsis basicola*

NT *Diplodia Boll Rot*

R *Verticillium Wilt*

Other (specify) \_\_\_\_\_

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT Root-Knot Nematode

NT Reniform Nematode

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NT Boll Weevil

NT Grasshopper (specify species): \_\_\_\_\_

NT Bollworm

NT Lygus (specify species): \_\_\_\_\_

NT Cotton Aphid

NT Pink Bollworm

NT Cotton Fleahopper

NT Spider Mite (specify species): \_\_\_\_\_

NT Cotton Leafworm

NT Stink Bug (specify species): \_\_\_\_\_

NT Cutworm (specify species): \_\_\_\_\_

NT Thrips (specify species): \_\_\_\_\_

NT Fall Armyworm

NT Tobacco Bud Worm

Other (specify): \_\_\_\_\_

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

**Exhibit D****Additional Description of the Variety**

Fiber Quality Summary from SJVCB Acala Variety Trials for 1996-97 depicting comparison of OA-211 to Maxxa is attached.

OA-211 has greater heat tolerance than Maxxa as demonstrated by the higher yields in SJVCB 1996 testing.

OA-211 defoliates better than Maxxa and produces better grades of lint with lower leaf grade and significantly higher yarn appearance.

3JVCB ACALA FIBER QUALITY SUMMARY 1996-97							9900275
	MAXXA	C-151	C-153	GC 9427	OA 211	PHY 56	CV%
1 FIBER LENGTH							
Fibrogrph 2.5%-Strlb	1.169 c	1.190 a	+1.192 a	+1.191 a	+1.177 bc	1.184 ab	+ 0.7
Upper quartile AFIS	1.214 bc	1.234 a	+1.220 abc	1.223 ab	1.203 c	1.206 bc	1.1
HVI-ITC	1.158 b	1.180 a	+1.178 a	+1.179 a	+1.161 b	1.162 b	1.1
HVI-Starlab	1.156 c	1.180 a	+1.186 a	+1.183 a	+1.166 b	+1.166 b	+ 1.3
HVI-VCO (Vis.Cl.Off)	1.159 d	1.187 a	+1.184 ab	+1.185 ab	+1.170 c	+1.175 bc	+ 1.2
2 LENGTH UNIFORMITY							
Fbrgrph Unif Ratio-St	48.2 c	49.5 ab	+ 48.2 c	49.1 b	+ 48.1 c	49.7 a	+ 1.8
AFIS-Unif(M/UQ)	82.9 b	83.7 a	+ 82.4 b	83.5 a	+ 82.6 b	84.1 a	+ 0.6
HVI Unif Index-ITC	83.2 c	84.4 a	+ 83.2 c	83.6 b	+ 83.1 c	84.2 a	+ 0.6
HVI Unif Index-Strlb	83.4 d	84.6 a	+ 83.6 c	+ 84.1 b	+ 83.2 d	84.4 a	+ 0.6
HVI Unif Index-VCO	83.4 de	84.5 a	+ 83.6 cd	83.9 bc	+ 83.2 e	84.3 ab	+ 0.8
3 % SHORT FIBER							
AFIS	6.6 b	5.6 a	+ 6.5 b	5.9 a	+ 7.1 b	5.5 a	+ 8.5
Peyer	9.1 a	7.1 a	10.5 a	6.4 a	7.1 a	7.1 a	35.2
4 % FIBER STRENGTH							
Stelometer-USDA std	30.3 d	31.6 c	+ 33.5 a	+ 32.5 b	+ 30.3 d	33.4 a	+ 2.3
Stelometer-Int. std	23.5 c	24.6 b	+ 25.9 a	+ 24.9 b	+ 23.4 c	25.6 a	+ 2.9
HVI-ITC	33.2 c	35.2 b	+ 35.2 b	+ 35.7 a	+ 33.5 c	36.1 a	+ 2.3
HVI-Strlb	32.4 c	34.3 b	+ 34.2 b	+ 35.1 a	+ 32.7 c	35.4 a	+ 2.9
HVI-VCO	33.9 d	35.4 c	+ 35.7 bc	+ 35.8 b	+ 34.2 d	36.3 a	+ 2.4
5 ELONGATION							
Stelometer-ITC	5.8 b	6.1 a	+ 5.8 b	5.7 b	5.8 b	6.2 a	+ 4.1
Stelometer-Strlb	6.7 b	7.1 a	+ 6.7 b	6.5 b	6.5 b	7.2 a	+ 5.7
HVI-ITC	6.1 c	6.4 a	+ 6.3 b	+ 6.2 b	+ 6.1 c	6.4 a	+ 1.9
HVI-Strlb	9.6 d	9.9 ab	+ 9.8 bc	+ 9.7 c	+ 9.6 d	9.9 a	+ 1.2
6 MICRONIARE							
HVI-ITC	4.12 b	4.11 b	3.94 c	- 4.09 b	4.06 b	4.21 a	+ 2.5
Fibronaire-Strlb	4.19 b	4.20 b	4.00 c	- 4.15 b	4.13 b	4.29 a	+ 2.4
HVI-Strlb	4.12 b	4.10 b	3.93 c	- 4.11 b	4.05 b	4.19 a	+ 2.8
HVI-VCO	4.08 b	4.11 ab	3.90 c	- 4.08 b	4.06 b	4.16 a	+ 2.7
7 FIBER FINENESS							
FMT-Millitex	169 d	162 c	+ 148 a	+ 155 b	+ 166 cd	161 c	+ 3.0
Arealometer-perimeter	46.8 d	44.8 c	+ 39.9 a	+ 42.7 b	+ 46.3 d	43.0 b	+ 5.5
AFIS Diameter	12.5 d	12.0 c	+ 11.4 a	+ 11.6 b	+ 12.4 d	11.9 c	+ 1.8
8 FIBER MATURITY %							
FMT	81.6 c	82.8 c	85.1 b	+ 85.3 b	+ 81.2 c	87.8 a	+ 2.6
Arealometer	83.4 c	85.5 b	+ 90.8 a	+ 88.9 a	+ 83.5 c	90.0 a	+ 4.7
9 COLOR TRASH-NEPS							
Rd-VCO	79.0 a	77.8 c	- 78.5 ab	78.4 b	- 79.1 a	76.5 d	- 1.3
b+ VCO	8.2 bc	8.5 d	- 7.7 a	+ 8.2 b	8.1 b	8.3 c	1.8
Color Index(manual)	100 a	99 abc	98 c	- 99 bc	- 100 ab	98 c	- 1.9
Leaf (HVI)	3.9 a	4.4 b	- 4.8 c	- 4.3 b	- 3.8 a	5.3 d	- 11.0
% non lint-Shirley	3.1 a	4.5 b	- 5.7 c	- 3.0 a	3.1 a	3.5 a	10.8
Trash part./gm AFIS	623 ab	728 bc	803 c	- 606 a	685 ab	1002 d	- 19.7
Seed frgmnts/5gms	52 a	88 c	- 98 d	- 63 b	- 52 a	51 a	29.2
Neps/gm-AFIS	303 a	309 a	389 c	- 355 b	- 296 a	318 a	14.3
10 SEED QUALITY							
% Oil	19.5 c	20.0 abc	19.6 c	20.5 ab	+ 19.9 bc	20.7 a	+ 1.8
% NH3	4.66 bc	4.89 a	+ 4.68 b	4.63 bc	4.61 c	4.41 d	- 1.5
% Linters	10.8 b	9.8 a	+ 11.5 c	- 10.4 b	10.6 b	10.4 b	3.2
Grade	110 c	114 ab	+ 112 bc	115 a	+ 112 abc	114 ab	+ 1.3
% Gossypol	1.16 cd	1.07 ab	+ 1.22 d	1.03 a	+ 1.16 cd	1.11 bc	4.3
% FFA	0.3 a	0.3 a	0.4 a	0.3 a	0.3 a	0.4 a	43.1

Average of 16 test sites (8 sites for AFIS measurements--6 sites for seed quality)  
Values within a line not having a common letter are signif. diff. at 95% probability  
+signif. better than the std -signif. poorer (for mic signif. greater than or less than)

**SJVCB FIBER QUALITY SUMMARY 1996-97** 9900275  
**RELATIVE VALUES**

	MAXXA	C-151	C-153	GC 9427	OA 211	PHY 56	CV%
<b>1 FIBER LENGTH</b>							
Fibrogrph 2.5%-Strlb	100 c	102 a +	102 a +	102 a +	101 bc	101 ab +	0.7
Upper quartile AFIS	100 bc	102 a +	101 abc	101 ab	99 c	99 bc	1.1
HVI-ITC	100 b	102 a +	102 a +	102 a +	100 b	100 b	1.1
HVI-Starlab	100 c	102 a +	103 a +	102 a +	101 b +	101 b +	1.3
HVI-VCO (Vis.Cl.Off)	100 d	102 a +	102 ab +	102 ab +	101 c +	101 bc +	1.2
<b>2 LENGTH UNIFORMITY</b>							
Fbrgrph Unif Ratio-St	100 c	103 ab +	100 c	102 b +	100 c	103 a +	1.8
AFIS-Unif(M/UQ)	100 b	101 a +	99 b	101 a +	100 b	101 a +	0.6
HVI Unif Index-ITC	100 c	101 a +	100 c	101 b +	100 c	101 a +	0.6
HVI Unif Index-Strlb	100 d	101 a +	100 c +	101 b +	100 d	101 a +	0.6
HVI Unif. Index-VCO	100 de	101 a +	100 cd	101 bc +	100 e	101 ab +	0.8
<b>3 % SHORT FIBER</b>							
AFIS	*	100 b	85 a +	98 b	89 a +	107 b	83 a + 8.5
Peyer	*	100 a	78 a	116 a	71 a	78 a	79 a 35.2
<b>4 % FIBER STRENGTH</b>							
Stelometer-USDA std	100 d	104 c +	110 a +	107 b +	100 d	110 a +	2.3
Stelometer-Int. std	100 c	105 b +	110 a +	106 b +	99 c	109 a +	2.9
HVI-ITC	100 c	106 b +	106 b +	107 a +	101 c	109 a +	2.3
HVI-Strlb	100 c	106 b +	106 b +	108 a +	101 c	109 a +	2.9
HVI-VCO	100 d	104 c +	105 bc +	106 b +	101 d	107 a +	2.4
<b>5 ELONGATION</b>							
Stelometer-ITC	100 b	106 a +	100 b	98 b	100 b	108 a +	4.1
Stelometer-Strlb	100 b	107 a +	101 b	97 b	98 b	107 a +	5.7
HVI-ITC	100 c	105 a +	102 b +	101 b +	100 c	104 a +	1.9
HVI-Strlb	100 d	103 ab +	102 bc +	101 c +	100 d	103 a +	1.2
<b>6 MICRONIARE</b>							
HVI-ITC	100 b	100 b	96 c -	99 b	98 b	102 a +	2.5
Fibronaire-Strlb	100 b	100 b	95 c -	99 b	98 b	102 a +	2.4
HVI-Strlb	100 b	100 b	95 c -	100 b	98 b	102 a +	2.8
HVI-VCO	100 b	101 ab	95 c -	100 b	99 b	102 a +	2.7
<b>7 FIBER FINENESS</b>							
FMT-Millitex	*	100 d	96 c +	88 a +	92 b +	98 cd	95 c + 3.0
Arealometer-perimeter*	*	100 d	96 c +	85 a +	91 b +	99 d	92 b + 5.5
AFIS Diameter	*	100 d	95 c +	91 a +	93 b +	99 d	95 c + 1.8
<b>8 FIBER MATURITY %</b>							
FMT	100 c	102 c	104 b +	105 b +	99 c	108 a +	2.6
Arealometer	100 c	103 b +	109 a +	107 a +	100 c	108 a +	4.7
<b>9 COLOR TRASH-NEPS</b>							
Rd-VCO	100 a	98 c -	99 ab	99 b -	100 a	97 d -	1.3
b+ VCO	*	100 bc	103 d -	94 a +	99 b	101 c	1.8
Color Index(manual)	100 a	99 abc	98 c -	99 bc -	100 ab	98 c -	1.9
Leaf (HVI)	*	100 a	113 b -	123 c -	110 b -	98 a	136 d - 11.0
% non lint-Shirley	*	100 a	147 b -	185 c -	99 a	100 a	114 a 10.8
Trash part./gm AFIS	*	100 ab	117 bc	129 c -	97 a	110 ab	161 d - 19.7
Seed frgmnts/5gms	*	100 a	168 c -	187 d -	121 b -	100 a	98 a 29.2
Neps/gm-AFIS	*	100 a	102 a	128 c -	117 b -	98 a	105 a 14.3
<b>10 SEED QUALITY</b>							
% Oil	100 c	103 abc	101 c	105 ab +	102 bc	106 a +	1.8
% NH3	100 bc	105 a +	100 b	99 bc	99 c	95 d -	1.5
% Linters	*	100 b	91 a +	106 c -	97 b	98 b	96 b 3.2
Grade	100 c	104 ab +	101 bc	104 a +	102 abc	103 ab +	1.3
% Gossypol	*	100 cd	92 ab +	105 d	89 a +	100 cd	96 bc 4.3
% FFA	*	100 a	93 a	115 a	85 a	75 a	115 a 43.1

All values are relative to the Maxxa standard, set at 100.

\*A decrease in relative value represents an improvement (e.g. no. of neps)

\*signif. better than the std -signif. poorer (for mic signif. greater than or less than)

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## SJVCB ACALA YARN QUALITY SUMMARY 1996-97

	MAXXA	C-151	C-153	GC 9427	OA 211	PHY 56	CV%
<b>1 % MANUFACTURING WASTE</b>							
Picker & card waste	6.1 a	7.2 b	- 8.2 c	- 5.5 a	5.6 a	5.9 a	11.6
Comber waste	16.4 b	13.9 a	+ 17.1 b	14.4 a	+ 17.1 b	14.5 a	+ 2.0
Total waste	21.5 b	20.1 a	+ 23.9 c	- 19.1 a	+ 21.8 b	19.5 a	+ 3.2
<b>2 YARN STRENGTH</b>							
Ne22 min spin mN/tex	139 c	149 b	+ 148 b	+ 153 a	+ 139 c	150 b	+ 2.5
Ne50 carded brk fctr	2497 b	2833 a	+ 2894 a	+ 2897 a	+ 2472 b	2822 a	+ 1.9
Ne50 combed brk fctr	2834 d	3130 c	+ 3348 a	+ 3304 ab	+ 2884 d	3203 bc	+ 2.2
Ne36 ring brk fctr	2762 c	3026 b	+ 3118 a	+ 3093 ab	+ 2742 c	3036 b	+ 1.3
Ne36 rotor brk fctr	2157 d	2303 c	+ 2437 a	+ 2394 b	+ 2139 d	2377 b	+ 2.2
Spinning potential	64 c	69 abc	71 ab	+ 74 a	+ 66 bc	70 ab	+ 6.8
<b>3 SINGLE YARN ELONGATION</b>							
Ne50 carded	4.7 cd	5.2 a	+ 4.9 b	+ 4.7 c	4.6 d	4.9 b	+ 2.3
Ne50 combed	4.9 d	5.3 a	+ 5.2 b	+ 5.0 cd	4.9 d	5.1 bc	+ 1.8
Ne36 ring	5.2 c	5.7 a	+ 5.5 b	+ 5.3 c	5.2 c	5.5 b	+ 2.0
Ne36 rotor	5.4 c	5.8 a	+ 5.7 b	+ 5.5 c	5.4 c	5.7 b	+ 2.2
<b>4 NEPS/1000 YARDS</b>							
Ne50 carded	1874 bc	1606 a	+ 2255 d	- 1734 ab	1852 b	2073 cd	8.1
Ne50 combed	297 ab	311 b	372 c	- 291 ab	265 a	366 c	- 12.0
Ne36 ring	1217 a	1120 a	1558 b	- 1190 a	1160 a	1522 b	- 8.7
Ne36 rotor	194 ab	197 ab	219 b	204 b	174 a	249 c	- 14.0
<b>5 YARN EVENNESS</b>							
Ne50 carded cv%	24.3 cd	22.5 a	+ 24.0 c	23.0 ab	+ 24.5 d	23.1 b	+ 1.7
Ne50 combed cv%	18.1 d	17.2 b	+ 17.0 a	+ 17.2 ab	+ 17.9 c	+ 17.2 b	+ 1.2
Ne36 ring cv%	21.8 d	20.2 a	+ 21.3 c	+ 20.6 b	+ 21.9 d	20.8 b	+ 1.7
Ne36 rotor cv%	17.7 c	17.0 b	+ 16.4 a	+ 17.1 b	+ 17.5 c	17.0 b	+ 1.2
Ne50 carded thick	1967 c	1556 a	+ 2042 c	1671 ab	+ 2039 c	1786 b	+ 5.8
Ne50 combed thick	388 c	309 a	+ 322 a	+ 297 a	+ 355 b	315 a	+ 9.0
Ne50 carded thin	922 c	522 a	+ 706 b	+ 582 a	+ 1023 d	- 591 a	+ 14.1
Ne50 combed thin	204 b	119 a	+ 90 a	+ 116 a	+ 194 b	111 a	+ 15.4
<b>6 YARN APPEARANCE</b>							
Ne50 carded app index	88 abc	91 ab	80 c	86 abc	93 a	83 bc	11.4
Ne50 combed app index	113 b	115 b	107 c	- 118 ab	122 a	+ 113 b	5.7
Ne36 ring app index	88 a	93 a	84 a	97 a	91 a	88 a	7.5
Ne36 rotor app index	113 a	118 a	110 a	114 a	119 a	119 a	8.2
<b>7 FABRIC-KNITTED</b>							
Dye uptake dE	69.9 a	69.9 a	69.8 a	70.1 a	70.1 a	70.3 a	0.5
Dye defects/sq in	0.49 a	0.58 abc	0.71 c	- 0.59 abc	0.66 bc	- 0.54 ab	27.0
Trash(SCF)/sq in	0.76 a	1.07 a	1.04 a	0.90 a	0.84 a	1.22 a	21.7

Average of 6 test sites (except Ne 22 yarn strength--16 sites)

Values within a line not having a common letter are signif. diff. at 95% probability  
+signif. better than the std -signif. poorer than the std

9900275

**3JVCB ACALA YARN QUALITY SUMMARY 1996-97**

**RELATIVE VALUES**

	MAXXA	C-151	C-153	GC 9427	OA 211	PHY 56	CV%
<b>1 % MANUFACTURING WASTE</b>							
Picker & card waste	*	100 a	117 b	-	134 c	-	89 a
Comber waste	*	100 b	85 a	+	105 b		88 a
Total waste	*	100 b	93 a	+	111 c	-	89 a
<b>2 YARN STRENGTH</b>							
Ne22 min spin mN/tex		100 c	107 b	+	107 b	+	111 a
Ne50 carded brk fctr		100 b	113 a	+	116 a	+	116 a
Ne50 combed brk fctr		100 d	110 c	+	118 a	+	117 ab
Ne36 ring brk fctr		100 c	110 b	+	113 a	+	112 ab
Ne36 rotor brk fctr		100 d	107 c	+	113 a	+	111 b
Spinning potential		100 c	108 abc		111 ab	+	116 a
<b>3 SINGLE YARN ELONGATION</b>							
Ne50 carded		100 cd	110 a	+	104 b	+	102 c
Ne50 combed		100 d	108 a	+	105 b	+	102 cd
Ne36 ring		100 c	109 a	+	105 b	+	101 c
Ne36 rotor		100 c	107 a	+	105 b	+	101 c
<b>4 NEPS/1000 YARDS</b>							
Ne50 carded	*	100 bc	86 a	+	120 d	-	92 ab
Ne50 combed	*	100 ab	105 b		125 c	-	98 ab
Ne36 ring	*	100 a	92 a		128 b	-	98 a
Ne36 rotor	*	100 ab	102 ab		113 b		105 b
<b>5 YARN EVENNESS</b>							
Ne50 carded cv%	*	100 cd	93 a	+	99 c		95 ab
Ne50 combed cv%	*	100 d	95 b	+	94 a	+	95 ab
Ne36 ring cv%	*	100 d	93 a	+	98 c	+	95 b
Ne36 rotor cv%	*	100 c	96 b	+	93 a	+	96 b
Ne50 carded thick	*	100 c	79 a	+	104 c		85 ab
Ne50 combed thick	*	100 c	79 a	+	83 a	+	76 a
Ne50 carded thin	*	100 c	57 a	+	77 b	+	63 a
Ne50 combed thin	*	100 b	59 a	+	44 a	+	57 a
<b>6 YARN APPEARANCE</b>							
Ne50 carded app index		100 abc	103 ab		91 c		97 abc
Ne50 combed app index		100 b	101 b		94 c	-	104 ab
Ne36 ring app index		100 a	106 a		96 a		110 a
Ne36 rotor app index		100 a	104 a		97 a		101 a
<b>7 FABRIC-KNITTED</b>							
Dye uptake dE		100 a	100 a		100 a		100 a
Dye defects/sq in	*	100 a	119 abc		144 c	-	120 abc
Trash(SCF)/sq in	*	100 a	141 a		137 a		119 a

All values are relative to the Maxxa standard, set at 100.

\*A decrease in relative value represents an improvement (e.g. no. of neps)

+signif. better than the std -signif. poorer than the std

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP***The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.**Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).*

1. NAME OF APPLICANT(S)  O & A Enterprises, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  OA-211	3. VARIETY NAME  DP 6211 ACALA
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  37860 W. Smith-Enke Road Maricopa, AZ 85239	5. TELEPHONE (include area code)  (520) 568-2276 X219	6. FAX (include area code)  (520) 568-2556
	7. PVPO NUMBER  9900275	

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.  YES  NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?  
If no, give name of country  YES  NO

10. Is the applicant the original owner?  YES  NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

YES  NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

YES  NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.